LITEON
www.liteonit.com

22x8x8x /22x6x8x/12x/16x/ + 48x32x48x

Features

Super AllWrite **iHAS122**

- ★ **SATA Half-Height internal DVD+R / DVD+RW / DVD-R / DVD-RW / DVD+R9/ DVD-R9/ DVD-RAM/DVD-ROM / CD-R/ CD-RW / CD-ROM combination drive**
- ★ **Support Double Layer DVD+/- R9 Recording Function**
- ★ **SMART-BURN(*1) avoiding Buffer Under Run error, Automatically adjusting writing strategy & walking OPC to provide the best burning quality**
- ★ **SMART-X(*2) function adjusts CD-DA / VCD / DVD data extraction to a fastest allowable speed according to both data request rate from host and disk quality**
- ★ **ABS system reduce vibration and noise during recording and reading**
- ★ **Support Fixed Packet, Variable Packet, TAO, SAO, DAO, Random Access Write, Incremental, sequential recording, restricted overwrite, Layer Jump recording, Raw Mode Burning & Over-Burn**
- ★ **DVD read compliant: DVD single/dual layer (PTP/OTP), DVD-R(3.9GB/4.7GB), DVD-R multi-borders, DVD-RAM DVD+R, DVD+R multi-sessions, DVD-RW, and DVD+RW**
- ★ **CD read compliant: CD-DA, CD-ROM, CD-ROM/XA, Photo-CD, Multi-session, Karaoke-CD, Video-CD, CD-I FMV, CD Extra, CD Plus, CD-R, and CD-RW**
- ★ **Support both 8cm and 12cm disc of CD and DVD family**
- ★ **Conform to Orange Book: Part 2 CD-R Volume 1, Part 2 CD-R Volume 2 Multi Speed, Part 3 CD-RW Volume 1 (1x, 2x, and 4x), Part 3 CD-RW Volume2: High Speed, Part 3 CD-RW Volume 3: Ultra Speed.**
- ★ **Supported transfer mode: PIO mode 4, DMA mode 2 and Ultra DMA mode 4**

Specifications

◎ **DVD Family :**

Write

DVD+R	22X maximum by CAV
DVD-R	22X maximum by CAV
DVD+R9	8X maximum by Zone CLV
DVD-R9	8X maximum by Zone CLV
DVD-RAM	12X maximum by PCAV

ReWrite

DVD+RW	8X by Z-CLV
DVD-RW	6X by CLV

Read	16X maximum by CAV
Rand. Access Time	160ms

◎ **CD Family :**

Write

CD-R	48X by CAV

ReWrite

CD-RW	32X maximum by Z-CLV in UltraSpeed disc

Read	48X maximum by CAV
Rand. Access Time	140ms

◎ **Buffer Size :** 2MB(MAX)

◎ **PC Required :** Pentium 4 1.3GHz or higher CPU and 128MB or higher RAM are required
HDD must have access time < 20 ms; with a minimum of 650MB free space
9GB free space for creating a DVD image file (9GB for double layer; 5GB for single layer)

◎ **Compatibility :** MS 2000/ XP/ Vista

◎ **MTBF(Life) :** 70000 POH

◎ **S/N Ratio :** >75dB

◎ **Environment :**

Operating	5℃ to 50℃; Relative Humidity: 15% to 80%
Non-Operating	-40℃ to 65℃; Relative Humidity: 15% to 95%

◎ **Dimension :** 146(W) x 41.3(H) x 170(D) mm

◎ **Weight :** <0.9 Kg

◎ **Voltage Requirements :**
+5V +/-5% and less than 100 mVp-p ripple voltage
+12V +/-10% and less than 200 mVp-p ripple voltage

*1 **SMART-BURN : S**mart **M**onitoring & **A**dapting **R**ecording **T**echnology for **BURN**ing.
*2 **SMART-X : S**mart **M**onitoring & **A**djusting **R**ead-speed **T**echnology for e**X**traction.

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